

FERDINAND IMMANUEL

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A recent graduate in Electrical Engineering from Universitas Sumatera Utara, with a focus on Embedded Systems, Internet of Things, Artificial Intelligence, and Website Development, and have practical experiences from projects, competitions, and certified training. Eager to apply skills and contribute to the workforce in those fields.

EXPERIENCE

FEB 2024 – NOW

PRODUCT TECHNICIAN, PT. SWAP ENERGI INDONESIA

- Product assembly and testing for Battery Swap Station Project for electric vehicle throughout Indonesia.
- Motorcycle battery repair and update.

JUNE 2022 – JULY 2022

PRACTICAL WORK, BALAI BESAR METEOROLOGI KLIMATOLOGI & GEOFISIKA WILAYAH I MEDAN

- Engaging in Learning while working at BBMKG Region I Medan
- Participating in data input on the BMKG's Website
- Working on a project for creating a room monitoring device

EDUCATION

AUGUST 2019 – JUNE 2023

BACHELOR DEGREE, UNIVERSITAS SUMATERA UTARA, MEDAN

- Department of Electrical Engineering, Faculty of Engineering
- Organization: UKM Robotic SIKONEK USU
- GPA: 3.73

JUNE 2016 - APRIL 2019

SENIOR HIGH SCHOOL, SMA SANTO THOMAS 1, MEDAN

- Science Program
- Participating in the district/city-level mathematics olympiad.
- Bronze Medal In The Open Mathematics Olympiad Contest (KTOM).

ORGANIZATION

MARCH 2022 – JULY 2023

MEMBER OF THE INVENTORY DIVISION, UKM ROBOTIK SIKONEK USU

- Conducting an inventory of the tools and equipment which owned by SIKONEK USU Robotics Student Organization
- Chairperson Of The Appointment Committee 2022 Board

PROJECTS

JANUARY 2023 – JULY 2023

DESIGN OF A CASHLESS PAYMENT SYSTEM USING FACE RECOGNITION AS AN IDENTITY RECOGNITION METHOD WITH CONVOLUTIONAL NEURAL NETWORK ALGORITHM, BACHELOR DEGREE FINAL THESIS

Designing an online store website prototype with face recognition payment system using Convolutional Neural Network as the identification algorithm

MAY 2023

WEBSITE DESIGNING: WEBKU

Link: <https://webku-fba87.web.app/>

JUNE 2022

DESIGNING AN INTERNET OF THINGS INTEGRATION SYSTEM FOR ROOM MONITORING SYSTEM, BBMKG WILAYAH 1 MEDAN

Design and Build an IoT-based Automatic room (temperature, moisture, air pressure) monitoring system with Telegram Chatting Application

APRIL 2022

DESIGNING, PROGRAMMING, AND CREATING AN AUTOMATIC SOIL MONITORING SYSTEM DEVICE

Design and Build an IoT-based automatic temperature and soil humidity monitoring system with Telegram Application

CERTIFICATE OF TRAINING/SEMINAR

MAY 2024

BELAJAR DASAR VISUALISASI DATA, DICODING ACADEMY

JANUARY 2024

SQL BASIC TEST CERTIFICATION, HACKERRANK

NOVEMBER 2023

COURSE: PYTHON ESSENTIALS 1, CISCO NETWORKING ACADEMY

DECEMBER 2022

STUDI INDEPENDEN : ARTIFICIAL INTELLIGENCE FOR STARTUPS, POWER ACADEMY

MARCH 2022

COURSE ONLINE: MEMULAI PEMROGRAMAN DENGAN C, DICODING ACADEMY

JANUARY 2022

WEBINAR ANDROID STUDY JAM: "ANDROID ARCHITECTURE COMPONENT", DICODING ACADEMY

AUGUST 2020

WEBINAR BERKARIR DI ENERGI BARENG PRAKTISI, SRE-ITB

SKILLS

Website Development: HTML, CSS, Javascript, PHP | Machine Learning/Artificial Intelligence: Python Programming Language | Microcontroller Designing and Programming: Arduino, NodeMCU esp8266, ESP32 (Internet of Things)|Back-end Programming: Python, Java, C | Microsoft Office | Foreign Language: English (Intermediate) | Git/Github (github.com/nocturne47) | Electrical Simulation Application: Multisim, Matlab, PSIM, Proteus, VSCODE, LIVEWIRE | Micro-electrical component Soldering | Electric Motorcycle Battery Troubleshooting